

Taha Zuberi

(403) 891-4264 | taha.zuberi@ucalgary.ca | linkedin.com/in/taha-zuberi | github.com/MrZuberi | tahazuberi.vercel.app

Education

University of Calgary

Bachelor of Science (B.Sc.), Software Engineering

Calgary, Alberta

Expected Graduation: May 2028

- Relevant Coursework: Object-Oriented Programming, Data Structures and Algorithms, Full Stack Development, Network Systems, Operating Systems, Embedded Systems, Data Management, Software Testing and Reliability

Experience

Software Engineer Intern

Super.com

September 2026 - Present

Toronto, Ontario

- Automated airline route onboarding by building a Python data processing pipeline and GitLab CI/CD workflow to validate and sync **59,000+** routes to AWS S3, enabling 5+ new carriers to launch on Kayak and Skyscanner
- Prevented outdated bookings from reaching travel suppliers by creating a request validation service with Python and FastAPI
- Expanded payment support to **6** international markets by developing a refund-protection product with React and TypeScript
- Built a multi-city flight search API by defining Pydantic models for booking itineraries and travel dates using Python and FastAPI
- Automated API integration testing by drafting pytest and Vitest suites using Claude Code and then manually refining edge cases

Software Engineer Intern

Broadbill Energy

May 2026 - Aug 2026

Calgary, Alberta

- Reduced weekly data entry time by **65%** for field crew members by building and shipping 4 site reporting tools with TypeScript, React, and PostgreSQL, replacing manual paper forms with automated digital logs
- Standardized access to operational data for **50+** users by designing an RBAC system with Python and PostgreSQL
- Enforced API request validation across application services by writing reusable Zod schemas in Next.js and Node.js
- Raised test coverage from **90%** to **94%** by developing a custom Storybook workbench and authoring Vitest tests in TypeScript
- Automated PDF report generation with Python by retrieving data through the Supabase MCP server using Claude Code

Software Engineer Intern

CyberRaze

May 2025 - Aug 2025

Calgary, Alberta

- Built and shipped **5+** production React applications in TypeScript by creating reusable UI components and integrating REST APIs, serving **20,000+** combined monthly visitors across e-commerce and healthcare platforms
- Automated order confirmations across checkout and payment processes by integrating Stripe Checkout with Node.js and Express.js
- Reduced average page rendering time from **3.0s** to **2.2s** by optimizing React components with useMemo and useCallback
- Cut repeated local environment setup to a single command by containerizing application dependencies with Docker
- Traced and documented reliability issues across applications by examining APM traces, error logs, and service metrics in Datadog

Projects

DriveSafe Calgary | React, Python, Flask, Elasticsearch, Redis

- Served **5,400+** unique users by building a full-stack web application with React, Python, and Flask, delivering real-time Calgary traffic updates, incident reports, and camera feeds, improving commute planning for residents across the city
- Reduced p95 latency from 800ms to 480ms for the traffic incidents API by caching frequently accessed data with Redis
- Improved location search accuracy and live incident visualization with Elasticsearch fuzzy search and a Leaflet.js map

OrbitScope | C++, OpenGL, MongoDB

- Created a 3D asteroid tracking simulation in C++ and OpenGL to process live NASA data and visualize asteroid trajectories, enabling users to explore and compare upcoming close approaches to planets across our solar system
- Increased graphics performance from **120** to **300+** FPS by optimizing asteroid rendering with OpenGL instancing
- Centralized data storage for planetary data and simulation presets by designing a MongoDB repository in C++

VioFlux | React, Python, NumPy, Pandas

- Won **1st Place** among **250+** participants at TurBiohacks 2025 by building a full-stack violacein pathway simulator with React and Python, enabling users to model and compare genetic modifications
- Identified the highest-yield gene configuration out of **243** possible combinations by building a Flask grid-search API in Python
- Modeled enzymatic yields across pathway genes by parsing genetic data with Pandas and simulating results with NumPy

Technical Skills

Languages: Python, TypeScript, JavaScript, Java, C, C++, SQL, HTML/CSS

Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, FastAPI, Flask, OpenGL, Spring Boot, Tailwind CSS, LangChain4j

Databases & Cloud: PostgreSQL, AWS (Lambda, S3, DynamoDB, EC2), MongoDB, Elasticsearch, Redis, Supabase, Microsoft Azure

AI & Developer Tools: Git, Docker, GitLab CI/CD, GitHub Actions, Datadog, Jira, OpenAI SDK, Anthropic SDK, Claude Code, Codex